

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (previously presented): A method for the verification of anti-jamming in a communications system having several sensors or adaptive antennas, comprising the following steps :

estimating a mean power $\hat{\sigma}_y^2$ of the output of the communications system,

estimating a respective power values P_u or P'_u , of a station u , the antenna noise P_a or P'_a , the thermal noise P_T , or P'_T ,

estimating at least one of the following ratios :

$$J_{tot}/S_{tot} = \left(\sum_{p=1}^P P_p \right) / \left(\sum_{u=1}^U P_u \right)$$

with p = the jamming unit

= sum of the power values of the residual jamming units/sum of the power values of the stations on the reception band B

$$J_{tot}/S_u = \left(\sum_{p=1}^P P_p \right) / P_u$$

= sum of the power values of the residual jamming units/power of the station u in the reception band B.

$$J_u/S_u = \left(\sum_{p=1}^P P_{pu} \right) / P_u$$

with P_{pu} = power of the jamming unit p in the reception band B_u .

- comparing at least one of the three ratios with a threshold value.

2. (previously presented): The method for the verification of anti-jamming according to claim 1, comprising a step for estimating the mean power $\hat{\sigma}_y^2$, for an output from a number K of samples, $y(k)$, $1 \leq k \leq K$ of this output, given by

$$\hat{\sigma}_y^2 = \frac{1}{K} \sum_{k=1}^K |y(k)|^2$$

3. (previously presented): The method for the verification of anti-jamming according to claim 1, comprising a step of estimation \hat{P}_u, \hat{P}'_u of the power P_u, P'_u in using, firstly, a priori knowledge of the parameters w and G_{num} for a digital application of the adaptive filters and $|\hat{\sigma}|^2, w$ and G for an analog application of the filters and secondly the estimation of the parameters $\hat{\sigma}_u$ and S_u .

4. (previously presented): The method for the verification of anti-jamming according to claim 1, comprising an estimation \hat{P}_u, \hat{P}'_u of the power P_u, P'_u in using, firstly, a priori knowledge of the parameters w and G_{num} for a digital application of the adaptive filters and $|\hat{\sigma}|^2, w$ and G for an analog application of the filters and secondly the estimation of the parameter $\hat{\sigma}_a$.

5. (previously presented): The method for the verification of anti-jamming according to claim 1, comprising a step of estimation \hat{P}_u, \hat{P}'_u of the power P_u, P'_u in using a priori knowledge of the parameters w and G_{num} for a digital application of the adaptive filters and $|\hat{\sigma}|^2, w$ and G for an analog application of the filters and secondly the estimation of the parameter $\hat{\sigma}_T$.

6. (previously presented): The method for the verification of anti-jamming according to claim 1, comprising a step of estimation $J_i^{\wedge} tot / S_i^{\wedge} tot$, of the ratio J_{tot}/S_{tot} given by

$$J_i^{\wedge} tot / S_i^{\wedge} tot = (\sum_{u=1}^U \tilde{y}_i \cdot \tilde{P}_i^{\wedge} u \cdot \tilde{P}_i^{\wedge} a \cdot \tilde{P}_i^{\wedge} T) / (\sum_{u=1}^U \tilde{P}_i^{\wedge} u) \quad (26)$$

7. (previously presented): The method for the verification of anti-jamming according to claim 1, comprising a step of estimation $J_i^{\wedge} tot / S_i^{\wedge} u$, of the ratio J_{tot}/S_u , given by

$$J_i^{\wedge} tot / S_i^{\wedge} u = (\sum_{u=1}^U \tilde{y}_i \cdot \tilde{P}_i^{\wedge} u \cdot \tilde{P}_i^{\wedge} a \cdot \tilde{P}_i^{\wedge} T) / \tilde{P}_i^{\wedge} u \quad (27)$$

8. (previously presented): The method of verification of anti-jamming according to claim 1, comprising a step of estimation $J_i^{\wedge} / S_i^{\wedge} u$, of the ratio J/S_u in using the total power of residual jamming units in the B_u band of the working station u given by

$$J_i^{\wedge} / S_i^{\wedge} u = (\sum_{v \neq u} \tilde{y}_i \cdot \tilde{P}_i^{\wedge} v \cdot \tilde{P}_i^{\wedge} v u \cdot \tilde{P}_i^{\wedge} a u \cdot \tilde{P}_i^{\wedge} T u) / \tilde{P}_i^{\wedge} u \quad (28)$$

9. (previously presented): A method of verification of anti-jamming according to claim 1 comprising a step of determination of the precision of estimation, and wherein this value is used to set the threshold.

10. (canceled):

11. (canceled):

12. (previously presented): A use of the method according to claim 1.

13. (canceled):

14. (canceled):